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ABSTRACT

This book presents pioneering work in teaching by scientists, mathematicians, and engineers to attract and retain women in these areas. The physical sciences, mathematics, and engineering persist as the professional areas where women have not yet broken the gender barrier. A severe shortage of scientists beginning in the mid-1990s is predicted and becoming increasingly severe by the 21st century. Mainstream scientists are realizing that they must rethink the way science is taught if they are to attract more people, particularly more women, to the sciences. Each chapter in this volume is written by a teacher who has transformed her course to appeal successfully to women students in particular while retaining its appeal for male students. Their transformed curricula, expanded problem sets and laboratory exercises, and successful teaching techniques are presented to assist others in breaking the gender barrier in science and technology. Specific disciplines are covered in five parts: physics and engineering, chemistry, mathematics, computer science, and environmental science and geosciences. (AIM)

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